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B60K 17/348(21) Application number: **01256276**(22) Date of filing: **29.09.89**(71) Applicant: **MAZDA MOTOR CORP**(72) Inventor: **DOI AYUMI**(54) **POWER TRANSMISSION DEVICE FOR VEHICLE**

(57) Abstract:

PURPOSE: To effectively make use of an excessive space in the vicinity of a drive shaft, and thereby enlarge a cabin space by arranging a clutch coaxially with the drive shaft extending to the transverse direction, whereas said clutch is provided at least for either one of the power transmission systems of front wheels and rear wheels.

CONSTITUTION: A transmission 2 the shaft of which is in the longitudinal direction of a car body, is connected with the front section of an engine 1 mounted on the rear section of the car body, a part of power outputted from the output shaft 4 of the transmission is transmitted to a right and a left front wheel 6R and 6L via a front wheel side power transmission system 5, meanwhile, the rest of the power is transmitted to a right and a left rear wheel 8R and 8L via a rear wheel side power transmission system 7. A front differential gear 12 and a rear differential gear 17 are disposed to the end sections of the propeller shafts 11 and 16 for the transmission systems 5 and 7 respectively. In this case, a wet type multiple disc clutch 35 engaging/disengaging the power transmission, is interposed within the cylindrical carrier supporting a pair of pinion gears of the front differential gear 12, and a limited

slip differential means 36 limiting the differential operations of the front differential gear 12 is concurrently interposed therein.

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